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	09/970,810	870,810 RAZ, RYAN	
Notice of Allowability	Donather	Art Unit	
	Wilbert L. Steries, Jr.	2121	
The BIALLING DATE of this communication appears on the cover shoot with the correspondence eddress- ul claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included incredit (or previously mailed), a Notice of Allowance (PTOL-65) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
. This communication is responsive to the thing of 04 OCT 20	201.		
2. M The allowed daim(s) b/are 1-28.		•	
). $igotimes$ The drawings filed on <u>${\it Q4}$ Outober 2001</u> are accepted by the	Exeminer.		
Acknowledgment is made of a claim for foreign priority unit a) All b) Some* c) None of the: 1. Certified copies of the priority documents have	been received.		
Certified copies of the priority documents have		·	
3. Copies of the certified copies of the priority doc	uments have been received in this	national stage applica	dion from the
International Bureau (PCT Rule 17.2(a)).			
Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" or noted below. Feiture to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the re	quirements
I. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives	ited. Note the attached EXAMINER a reason(s) why the oath or declars	'S AMENDMENT or I tion is deficient.	NOTICE OF
L CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) Including changes required by the Notice of Oraftsperso	on's Patent Drawing Review (PTO-	948) attached	
1) Thereto or 2) 10 Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No/Mail Date			
Mantifying indicis such as the application number (see 37 CFR 1.4 each sheet. Replacement sheetis) should be labeled as such in the	M(c)) should be written on the drawle to header according to 37 GFR 1.121(nge in the trant (not th d).	e back) of
DEPOSIT OF and/or INFORMATION about the depositional Examiner's comment regarding REQUIREMENT F	et of BIOLOGICAL MATERIAL	nust be submitted.	Note the
Utlechment(s) 🔂 Notice of References Cited (PTO-592)	5. Notice of Informal F	etent Application (PT	O-162)
District of Draftperson's Palent Drawing Review (PTO-948)	6. Triterview Summery Paper No./Mail Da	(PTO-413),	•
l. M Information Disclosure Statements (PTO-1449 or PTO/SB/0		ment/Comment	
Paper No./Mail Date <u>4.5</u> Describer's Comment Regarding Requirement for Deposit	8. 🔀 Exeminer's Statema	ent of Ressons for All	owance
of Biological Material	9. Other		
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DETAILED ACTION

Ressons For Allowance

- 1. Claims 1-28 are allowed.
- 2. The following is an Examiner's statement of reasons for allowance:
- 3. The cited prior art taken alone or in combination fails to teach the claimed invention of a neural network assisted multi-spectral segmentation system, as claimed by Applicant. Specifically:
- 4. Independent claim 1 discloses an "analyzing step utilizing previously developed classification information for discriminating nuclear or cytoplasmic material, the previously developed classification information being developed from at least one cell of known regions of nuclear or cytoplasmic material."
- 5. The closest prior art of Raz (U.S. Patent Number 6,463,425 B2; dated 08
 October 2002; class 706; subclass 20) teaches the claimed invention of a neural network assisted multi-spectral segmentation system, as claimed by Applicant, but fails to teach or suggest an "analyzing step utilizing previously developed classification information for discriminating nuclear or cytoplasmic material, the previously developed classification information being developed from at least one cell of known regions of

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nuclear or cytoplasmic material.* To the extent that this feature is not found in the prior

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art cited by Examiner, the present case is held allowable over the art of record.

6. Independent claim 17 discloses "at least one first digitized image in a wavelength of between 525 to 575 nanometers, at least one second digitized image in a wavelength of between 565 to 582 nanometers, and at least one third digitized image in a wavelength of between 625 to 635 nanometers."

7. The dosest prior art of Raz (U.S. Patent Number 6,463,425 B2; dated 08

October 2002; class 706; subclass 20) teaches the claimed invention of a neural network assisted multi-spectral segmentation system, as claimed by Applicant, but falls to teach or suggest "at least one first digitized image in a wavelength of between 525 to 575 nanometers, at least one second digitized image in a wavelength of between 565 to 582 nanometers, and at least one third digitized image in a wavelength of between 625 to 635 nanometers." To the extent that this feature is not found in the prior art cited by Examiner, the present case is held allowable over the art of record.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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A. Zahniser et al. (U.S. Patent Number 6,665,060 B1; dated 16 December 2003; class 356; subclass 039) discloses a cytological imaging system and method.

- McNamara et al. (U.S. Patent Number 6,007,998; dated 28 December 1999;
 class 435; subclass 006) discloses an in situ method of analyzing cells.
- C. Cabib et al. (U.S. Patent Number 6,690,817 B1; dated 10 February 2004; class 382; subclass 134) discloses spectral bio-imaging data for cell classification using internal reference.
- D. Haykin, Simon, "Neural Networks: A Comprehensive Foundation", Macmillan
 College Publishing Company, Englewood Cliffs, New Jersey, 1994, pp. 138-229.
- 9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- Any inquiry concerning this communication or earlier communications from the
 Examiner should be directed to Wilbert L. Starks, Jr. whose telephone number is (703)
 305-0027.

Alternatively, inquiries may be directed to the following:

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WLS

16 September 2004

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An Unit - 2121